## Mehta

[45] July 22, 1975

[54]	ADMIXTURES FOR REDUCING SLUMP LOSS IN HYDRAULIC CEMENT CONCRETES				
[75]	Inventor:	Povindar K. Mehta, El Cerrito, Calif.			
[73]	Assignee:	The Regents of the University of California, Berkeley, Calif.			
[22]	Filed:	Jan. 11, 1974			
[21]	Appl. No.:	432,514			
[52]	U.S. Cl	<b>106/88;</b> 106/90; 106/97; 260/29.65			
[51]	Int. Cl				
		arch 106/90, 314; 260/29.65, 260/29.75, 88			
[56] References Cited					
UNITED STATES PATENTS					
		52 Foster			

3,429,724	2/1969	Keenum et al	106/90
3,433,657	3/1969	Pickering	106/90
3,487,038	12/1969	Toy et al	106/90

Primary Examiner—J. Poer Attorney, Agent, or Firm—Phillips, Moore, Weissenberger Lempio & Strabala

## [57] ABSTRACT

In freshly mixed portland cement concrete, slump loss, which normally occurs during transportation and handling, can be either prevented or considerably reduced by admixing small amounts of styrene-butadiene latices, e.g., 0.01 to 0.15% of latex (on solid basis) by weight of concrete or 0.1 to 1.5% of latex by weight of cement. Thus, by maintaining plasticity of fresh (unhardened) concrete for prolonged periods of time, the small amount of latex admixture can permit transportation of pre-mixed concrete over longer hauling distances, or permit longer handling time for placement, consolidation, and finishing of concrete in formwork.

## 7 Claims, No Drawings